

103-99

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 March 2001 (01.03.2001)

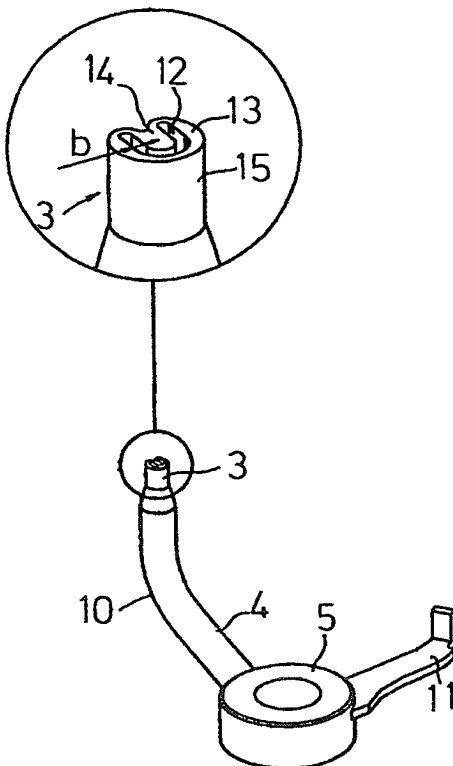
PCT

(10) International Publication Number
WO 01/14699 A1

- (51) International Patent Classification⁷: **F01P 3/08** (74) Agent: **WALDEBÄCK, Hans**; Scania CV AB, Patents, S-151 87 Södertälje (SE).
- (21) International Application Number: **PCT/SE00/01595** (81) Designated States (*national*): BR, DE, JP, US.
- (22) International Filing Date: **22 August 2000 (22.08.2000)** (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
- (25) Filing Language: **Swedish**
- (26) Publication Language: **English**
- (30) Priority Data: **9902968-8** **23 August 1999 (23.08.1999)** **SE** Published:
— *With international search report.*
- (71) Applicant (*for all designated States except US*): **SCANIA CV AKTIEBOLAG (publ)** [SE/SE]; S-151 87 Södertälje (SE). *For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **SVENSSON, Jens** [SE/SE]; Malmövägen 18, S-121 49 Johanneshov (SE).

(54) Title: **APPARATUS FOR PISTON COOLING AND A METHOD FOR PRODUCING A NOZZLE FOR SUCH AN APPARATUS**

(57) Abstract: An arrangement for cooling a piston (2) in a combustion engine (1) of piston and cylinder type with a nozzle (3) installed in a crankcase in order to spray cooling oil (7) towards the underside of the piston (2) incorporates devices (4, 5, 6) for supplying oil to the nozzle (3). The outlet end of the nozzle (3) exhibits an elongate curved and preferably substantially U-shaped or C-shaped outlet aperture cross-section (12, 12').



WO 01/14699 A1